

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
17 February 2005 (17.02.2005)

PCT

(10) International Publication Number
WO 2005/014519 A1

(51) International Patent Classification⁷: **C07C 67/307**,
69/75, 51/363, 61/15, 251/44

(21) International Application Number:
PCT/EP2004/005756

(22) International Filing Date: 27 May 2004 (27.05.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
103 36 274.6 7 August 2003 (07.08.2003) DE

(71) Applicant (for all designated States except US): **HONEYWELL SPECIALTY CHEMICALS SEELZE GMBH** [DE/DE]; Wunstorfer Strasse 40, 30926 Seelze (DE).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **SCHMAND, Horst**,
Ludwig-Karl [DE/DE]; Kramerstr. 3, 31542 Bad Nen-
dorf (DE).

(74) Agent: **BUBLAK, Wolfgang; Bardehle, Pagenberg, Dost**,
Altenburg, Geissler, Galileiplatz 1, 81679 München (DE).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: **PROCESS FOR THE PREPARATION OF GEMINAL DIFLUOROALKANES**

(57) Abstract: The invention relates to a process for the preparation of a substituted geminal difluoroalkane, wherein an oxime is converted to the geminal difluoroalkane using a nitrite and a complex consisting of HF and an organic base, as well as its use as an intermediate in the manufacture of pharmaceutical products.